

**REMARKS**

Reconsideration of the present application as amended is respectfully requested. Claims 1-30, 32, 34, and 35 are currently pending.

Claims 1-30, 32, 34, and 35 have been indicated in the Office Action as allowed. Applicant wishes to thank the Examiner for the allowance of claims 1-30, 32, 34, and 35.

The Office Action has indicated that the application is in condition for allowance except for formal matters. The Office Action has objected to the specification as failing to provide proper antecedent basis for the claimed subject matter. In particular, the Office Action has indicated that the specification must be amended to provide antecedent basis for the following limitations of claim of 1: “reusable addend;” “applying the sequence to each known sequence of values to produce respective sets of addends, each set of addends corresponding to a respective known sequence of values and including said at least one reusable addend;” “determining respective correlation results responsive to said respective sets of addends;” and “wherein said set of addends of said respective sets of addends have been reduced by a common subexpression elimination algorithm.” The Office Action has also indicated that the specification must be amended to provide antecedent basis for the limitation of claim of 12 of “product addends”, the limitations of claim 15 of “producing a common addend, producing a first and second set of addends, by applying said sequence of values to the first and second known sequence of values, respectively, calculating a first and second correlates based on said first and second set of addends, respectively.” The Office Action has further indicated that the specification must be amended to include the limitation of claim 16 of “adjusting the common addend.”

Although Applicant believes that the claims are fully supported by the specification, Applicant has amended the specification in accordance with the requirements of the Office Action to facilitate allowance. With respect to the objections related to independent claim 1, Applicant has inserted a new paragraph on page 38, after line 4 of the specification that provides antecedent basis for the terms of claim 1. Support for this amendment to the specification can be found at at least page 35, line 1 to page 38, line 4 and claim 1 of the application as originally filed. With respect to the objections related to independent claim 12, Applicant has inserted a new paragraph on page 34, after line 20 of the specification that provides antecedent basis for

the terms of claim 12. Support for this amendment to the specification can be found at at least page 30, line 9 to page 34, line 20 and claim 12 of the application as originally filed. With respect to the objections related to claims 15-16, Applicant has inserted a new paragraph on page 41, after line 11 of the specification that provides antecedent basis for the terms of claims 15-16. Support for this amendment to the specification can be found at at least page 38, line 5 to page 41, line 10 and claims 15-16 of the application as originally filed. Applicant submits that no new matter has been added by the foregoing amendments to the specification.

In view of the above amendments, Applicant believes the pending application is in condition for allowance.

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Respectfully submitted,

By Michael W. Maddox  
Michael W. Maddox

Registration No.: 47,764  
JENKENS & GILCHRIST, A PROFESSIONAL  
CORPORATION  
1445 Ross Avenue, Suite 3200  
Dallas, Texas 75202  
(214) 855-4500  
Attorneys For Applicant